

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
19 May 2005 (19.05.2005)

PCT

(10) International Publication Number  
WO 2005/044287 A1

(51) International Patent Classification<sup>7</sup>: A61K 33/30,  
47/22, A61P 11/00, 15/00, 17/10, 31/00, 31/04, 31/10,  
31/12, 31/14, 31/16, 31/18, 31/20, 33/00, 43/00

62, Moscow, 109542 (RU). LUKASHOV, Oleg Ivanovich  
[RU/RU]; Kosygina st. H. 5 ap. 259, Moscow, 117334  
(RU).

(21) International Application Number:  
PCT/IB2004/003685

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(22) International Filing Date:  
11 November 2004 (11.11.2004)

(25) Filing Language:  
English

(26) Publication Language:  
English

(30) Priority Data:  
60/518,891 11 November 2003 (11.11.2003) US  
60/523,190 13 November 2003 (13.11.2003) US

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE,  
SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (for all designated States except US): VECKIS  
INDUSTRIES LTD. [LI/LI]; 207 Neptune House, Gibral-  
ter, 34 Aeulestrasse, FL-9490 Vaduz (LI).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(72) Inventors; and  
(75) Inventors/Applicants (for US only): POLYAKOV, Viktor Stanislavovich [RU/RU]; Novogireevskaya st. h. 8  
bld. 2 ap. 69, Moscow, 111123 (RU). ERMILOV, Valeriy Vasilievich [RU/RU]; Lyublinskaya st. h. 5 bld. 5  
ap. 116, Moscow, 109518 (RU). KUZMIN, Vladimir Semenovich [RU/RU]; Ryazanskiy Prospekt h. 87 bld. 2 ap.

WO 2005/044287 A1

(54) Title: DISINFECTING COMPOSITION AND METHODS OF MAKING AND USING SAME

(57) Abstract: The invention relates to antimicrobial compositions that can be used for disinfecting and can be applied in various aspects of the national economy, medicine, and laboratories of all types. The antimicrobial compositions comprise a chelating metal complex compound with a monodentate bidentate or polydentate ligand that exhibits affinity to hydrogen ion, an ionogenic surfactant, and a solvent. The compositions of the invention display antiseptic properties. The antimicrobial compositions are active against Gram-positive and Gram-negative bacteria, fungi, viruses, and spores, and can be applied in a broad temperature interval. Methods of using the compositions of the present invention in the treatment and prevention of diseases caused by a variety of pathogens are further provided.